

DOCKET NO.: ISIS-5320
USSN: 10/699,240

PATENT

LISTING OF THE CLAIMS: This claim listing replaces all prior versions and listings of claims in the instant application.

Claims 1-55 (*Canceled*)

56. (*New*) An oligonucleotide having at least one β -D-erythro-pentofuranosyl sugar monomeric subunit, wherein said β -D-erythro-pentofuranosyl sugar monomeric subunit is substituted at the 2'-position and is coupled 1' to 1 to a substituted pyrimidine through a glycosyl linkage.
57. (*New*) The oligonucleotide of claim 56, wherein the substitution at the 2'-position is 2'-O-substituted.
58. (*New*) The oligonucleotide of claim 57, wherein the 2'-O-substituent is unsubstituted or substituted alkyl.
59. (*New*) The oligonucleotide of claim 58, wherein the 2'-O-substituent is 2'-OCH₃.
60. (*New*) The oligonucleotide of claim 58, wherein the 2'-O-substituent is 2'-O-alkyl further substituted with alkoxy.
61. (*New*) The oligonucleotide of claim 56, wherein the substitution at the 2'-position is 2'-halo.
62. (*New*) The oligonucleotide of claim 61, wherein the substitution at the 2'-position is 2'-fluoro.
63. (*New*) The oligonucleotide of claim 56, wherein the substituted pyrimidine is substituted at the 5-position of the pyrimidine.

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64. *(New)* The oligonucleotide of claim 63, wherein the 5-position of the pyrimidine is substituted with halo, substituted or unsubstituted alkyl, substituted or unsubstituted alkenyl, or substituted or unsubstituted alkynyl.
65. *(New)* The oligonucleotide of claim 64, wherein the 5-position of the pyrimidine is substituted with substituted or unsubstituted alkyl.
66. *(New)* The oligonucleotide of claim 65, wherein the 5-position of the pyrimidine is substituted with $-CH_3$.
67. *(New)* The oligonucleotide of claim 66, wherein the 5-position of the pyrimidine is substituted with substituted or unsubstituted alkynyl.
68. *(New)* The oligonucleotide of claim 56 or 64, having at least one modified internucleoside linkage.
69. *(New)* The oligonucleotide of claim 68, wherein said modified internucleoside linkage is a phosphorothioate internucleoside linkage.